ELSEVIER

Environmental and Experimental Botany 42 (1999) 245

Environmental and Experimental Botany

Author index of volume 42

Baricevic, D. **42**, 17
Basu, P.S. **42**, 25
Bennett, J.P. **42**, 191
Bosabalidis, A.M. **42**, 113

Chao, S.Y. **42**, 201
Chartzoulakis, K. **42**, 113
Chauhan, L.K.S. **42**, 181
Chen, X. **42**, 51
Chia, T.-F. **42**, 11

d'Andria, R. **42**, 95
Danielsson, H. **42**, 41
da Silva, J.V. **42**, 155

Fracheboud, Y. **42**, 129

Garg, I.D. **42**, 25
Gelang, J. **42**, 41
Giorio, P. **42**, 95
Griffin, K.L. **42**, 141
Gupta, S.K. **42**, 181

Harms, A.V. **42**, 69
Hébert, G. **42**, 155
He, J. **42**, 11
Huttunen, S. **42**, 173
Hu, W. **42**, 201

Ikeda, T. **42**, 211
Itoh, R. **42**, 211

Jasoni, R. **42**, 105
Javed, I.-u.H. **42**, 85

Khan, M.R. **42**, 163
Khan, M.W. **42**, 163
Kinnunen, H. **42**, 173
Kong, F.X. **42**, 201
Kreft, S. **42**, 17
Krijger, G.C. **42**, 69

Laakso, K. **42**, 173
Leen, R. **42**, 69
Leipner, J. **42**, 129
Llusià, J. **42**, 61
Luo, Y. **42**, 141

Manninen, S. **42**, 173
Masood, I. **42**, 85
Maticic, B. **42**, 17
Murray, F. **42**, 221

Paradha Saradhi, P. **42**, 1
Patakas, A. **42**, 113
Peñuelas, J. **42**, 61
Peura, R. **42**, 173
Pimentel, C. **42**, 155
Pleijel, H. **42**, 41
Prasad, K.V.S.K. **42**, 1

Quan Yu, J. **42**, 121

Rasul, E. **42**, 85
Read, D.J. **42**, 231
Ren, H.-X. **42**, 51
Rouhier, H. **42**, 231

Sang, W.L. **42**, 201
Saxena, P.N. **42**, 181
Sharma, A. **42**, 25
Sharmila, P. **42**, 1
Sohan, D. **42**, 105
Sorrentino, G. **42**, 95
Stamp, P. **42**, 129
Sukumaran, N.P. **42**, 25
Sultana, N. **42**, 211
Suprayogi, B. **42**, 221

Umek, A. **42**, 17

Verburg, T.G. **42**, 69

Wahid, A. **42**, 85
Wang, L.S. **42**, 201
Wang, Z.-L. **42**, 51
Wetmore, C.M. **42**, 191
Wolterbeek, B. **42**, 69

Zajicek, J. **42**, 105
Zhu, Y.-L. **42**, 51
Zupancic, A. **42**, 17

PII: S0098-8472(99)00046-5

ELSEVIER

Environmental and Experimental Botany 42 (1999) 247–251

Environmental and Experimental Botany

Subject index of volume 42

Adaptation; Alpine plant; Altitude; Antioxidative system; Isoenzyme; *Plantago major* **42**, 51

Allium cepa; Chromosome breaks; Cypermethrin; Fenvalerate; Mitotic index; Mitotic aberrations **42**, 181

Alpine plant; Adaptation; Altitude; Antioxidative system; Isoenzyme; *Plantago major* **42**, 51

Altitude; Adaptation; Alpine plant; Antioxidative system; Isoenzyme; *Plantago major* **42**, 51

Antioxidants; Low growth temperature; Oxidative stress; Pigments; Quantum efficiency; Scavenging enzymes; *Zea mays* **42**, 129

Antioxidation system; Glucose-6-phosphate dehydrogenase; Lichen; Mannitol; Oxidative stress; Sulfur dioxide; Trehalase; *Xanthoparmelia mexicana* **42**, 201

Antioxidative system; Adaptation; Alpine plant; Altitude; Isoenzyme; *Plantago major* **42**, 51

Artefacts; Compartment analysis; *Lycopersicon esculentum*; Technetium-speciation **42**, 69

Ascorbate–glutathione cycle; *Brassica juncea*; Catalase; Peroxidase; Superoxide dismutase; Oxygen species; Zinc toxicity **42**, 1

Atropa belladonna; Capillary electrophoresis; Nitrogen supply; Tropane alkaloids; Water stress **42**, 17

Avicennia marina; Mangroves; Oil; *Rhizophora stylosa*; *Rhizophora mucronata*; *Ceriops tagal* **42**, 221

Backscattered electron images; Energy dispersive analyser; Epicuticular waxes; Scots pine; UV-B radiation; *Pinus sylvestris* **42**, 173

Betula pendula; Elevated CO_2; Plant growth; Ectomycorrhiza; Mycelial development; *Paxillus involutus* **42**, 231

Biomass; Flowering; Genotype; Open-top chamber; Ozone; *Phleum alpinum*; *Phleum pratense* **42**, 41

Biomonitoring; Geothermal; Heavy metals; Lichen; Mercury; Trace elements; Yellowstone National Park **42**, 191

Brassica juncea; Ascorbate–glutathione cycle; Catalase; Peroxidase; Superoxide dismutase; Oxygen species; Zinc toxicity **42**, 1

Calcium; Salinity; Water relations; Sunflower; *Helianthus annuus* L. **42**, 105

Capillary electrophoresis; *Atropa belladonna*; Nitrogen supply; Tropane alkaloids; Water stress **42**, 17

Carbon partitioning; Drought; Feedback inhibition; *Solanum tuberosum*; Source–sink; Starch; Stomatal conductance; Sucrose **42**, 25

Δ^3-Carene; α-Pinene; Field conditions; Limonene; PFD; Photosynthetic rate; *Pinus halepensis*; *Quercus ilex*; Temperature; Terpene emission **42**, 61

Catalase; *Brassica juncea*; Ascorbate–glutathione cycle; Peroxidase; Superoxide dismutase; Oxygen species; Zinc toxicity **42**, 1

Ceriops tagal; Mangroves; Oil; *Avicennia marina*; *Rhizophora stylosa*; *Rhizophora mucronata* **42**, 221

Chlorosis; Genotypes; Growth; *Helianthus annuus*; Phenotypic flexibility; RLGR; Selection traits **42**, 85

Chromosome breaks; *Allium cepa*; Cypermethrin; Fenvalerate; Mitotic index; Mitotic aberrations **42**, 181

CO_2 acclimation; Global change; *Glycine max*; Respiration; Stomatal conductance **42**, 141

Compartment analysis; Artefacts; *Lycopersicon esculentum*; Technetium-speciation **42**, 69

CPPU; Cytokinins; Fruit set; Fruit growth; *Lagenaria leucantha*; Parthenocarpy; Plant growth regulators **42**, 121

Cucumber; *Cucumis sativa*; Fungus disease; Ozone; Plant growth; *Sphaerotheca fuliginea* **42**, 163

PII: S0098-8472(99)00047-7

Cucumis sativa; Cucumber; Fungus disease; Ozone; Plant growth; *Sphaerotheca fuliginea* **42**, 163

Cypermethrin; *Allium cepa*; Chromosome breaks; Fenvalerate; Mitotic index; Mitotic aberrations **42**, 181

Cytokinins; CPPU; Fruit set; Fruit growth; *Lagenaria leucantha*; Parthenocarpy; Plant growth regulators **42**, 121

Drought; Carbon partitioning; Feedback inhibition; *Solanum tuberosum*; Source–sink; Starch; Stomatal conductance; Sucrose **42**, 25

Drought; Leaf anatomy; *Olea europea*; Osmotic adjustment; Photosynthesis; Water relations **42**, 113

Dry matter; Grain filling; NaCl; *Oryza sativa* L.; Photosynthesis; Salinity **42**, 211

Ectomycorrhiza; *Betula pendula*; Elevated CO_2; Plant growth; Mycelial development; *Paxillus involutus* **42**, 231

Elevated CO_2; *Betula pendula*; Plant growth; Ectomycorrhiza; Mycelial development; *Paxillus involutus* **42**, 231

Energy dispersive analyser; Backscattered electron images; Epicuticular waxes; Scots pine; UV-B radiation; *Pinus sylvestris* **42**, 173

Epicuticular waxes; Backscattered electron images; Energy dispersive analyser; Scots pine; UV-B radiation; *Pinus sylvestris* **42**, 173

Feedback inhibition; Carbon partitioning; Drought; *Solanum tuberosum*; Source–sink; Starch; Stomatal conductance; Sucrose **42**, 25

Fenvalerate; *Allium cepa*; Chromosome breaks; Cypermethrin; Mitotic index; Mitotic aberrations **42**, 181

Field conditions; α-Pinene; δ^3-Carene; Limonene; PFD; Photosynthetic rate; *Pinus halepensis*; *Quercus ilex*; Temperature; Terpene emission **42**, 61

Flowering; Biomass; Genotype; Open-top chamber; Ozone; *Phleum alpinum*; *Phleum pratense* **42**, 41

Fruit growth; CPPU; Cytokinins; Fruit set; *Lagenaria leucantha*; Parthenocarpy; Plant growth regulators **42**, 121

Fruit set; CPPU; Cytokinins; Fruit growth; *Lagenaria leucantha*; Parthenocarpy; Plant growth regulators **42**, 121

Fungus disease; Cucumber; *Cucumis sativa*; Ozone; Plant growth; *Sphaerotheca fuliginea* **42**, 163

Genotype; Biomass; Flowering; Open-top chamber; Ozone; *Phleum alpinum*; *Phleum pratense* **42**, 41

Genotypes; Chlorosis; Growth; *Helianthus annuus*; Phenotypic flexibility; RLGR; Selection traits **42**, 85

Geothermal; Biomonitoring; Heavy metals; Lichen; Mercury; Trace elements; Yellowstone National Park **42**, 191

Global change; CO_2 acclimation; *Glycine max*; Respiration; Stomatal conductance **42**, 141

Glucose-6-phosphate dehydrogenase; Antioxidation system; Lichen; Mannitol; Oxidative stress; Sulfur dioxide; Trehalase; *Xanthoparmelia mexicana* **42**, 201

Glycine max; Global change; CO_2 acclimation; Respiration; Stomatal conductance **42**, 141

Grain filling; Dry matter; NaCl; *Oryza sativa* L.; Photosynthesis; Salinity **42**, 211

Growth; Chlorosis; Genotypes; *Helianthus annuus*; Phenotypic flexibility; RLGR; Selection traits **42**, 85

Heavy metals; Biomonitoring; Geothermal; Lichen; Mercury; Trace elements; Yellowstone National Park **42**, 191

Helianthus annuus; Chlorosis; Genotypes; Growth; Phenotypic flexibility; RLGR; Selection traits **42**, 85

***Helianthus annuus* L.**; Salinity; Water relations; Sunflower; Calcium **42**, 105

Infection; Inflorescence; *Oncidium*; Orchid; Photosynthesis; Virus eradication **42**, 11

Inflorescence; Infection; *Oncidium*; Orchid; Photosynthesis; Virus eradication **42**, 11

Isoenzyme; Adaptation; Alpine plant; Altitude; Antioxidative system; *Plantago major* **42**, 51

Lagenaria leucantha; CPPU; Cytokinins; Fruit set; Fruit growth; Parthenocarpy; Plant growth regulators **42**, 121

Leaf anatomy; Drought; *Olea europea*; Osmotic adjustment; Photosynthesis; Water relations **42**, 113

Leaf water status; *Olea europaea*; Water deficit; Stomatal control; Photosynthetic response **42**, 95

Lichen; Antioxidation system; Glucose-6-phosphate dehydrogenase; Mannitol; Oxidative stress; Sulfur dioxide; Trehalase; *Xanthoparmelia mexicana* **42**, 201

Lichen; Biomonitoring; Geothermal; Heavy metals; Mercury; Trace elements; Yellowstone National Park **42**, 191

Limonene; α-Pinene; δ^3-Carene; Field conditions; PFD; Photosynthetic rate; *Pinus halepensis*; *Quercus ilex*; Temperature; Terpene emission **42**, 61

Low growth temperature; Antioxidants; Oxidative stress; Pigments; Quantum efficiency; Scavenging enzymes; *Zea mays* **42**, 129

Lycopersicon esculentum; Artefacts; Compartment analysis; Technetium-speciation **42**, 69

Mangroves; Oil; *Avicennia marina*; *Rhizophora stylosa*; *Rhizophora mucronata*; *Ceriops tagal* **42**, 221

Mannitol; Antioxidation system; Glucose-6-phosphate dehydrogenase; Lichen; Oxidative stress; Sulfur dioxide; Trehalase; *Xanthoparmelia mexicana* **42**, 201

Mercury; Biomonitoring; Geothermal; Heavy metals; Lichen; Trace elements; Yellowstone National Park **42**, 191

Mitotic aberrations; *Allium cepa*; Chromosome breaks; Cypermethrin; Fenvalerate; Mitotic index **42**, 181

Mitotic index; *Allium cepa*; Chromosome breaks; Cypermethrin; Fenvalerate; Mitotic aberrations **42**, 181

Mycelial development; *Betula pendula*; Elevated CO_2; Plant growth; Ectomycorrhiza; *Paxillus involutus* **42**, 231

NaCl; Dry matter; Grain filling; *Oryza sativa* L.; Photosynthesis; Salinity **42**, 211

Nitrogen supply; *Atropa belladonna*; Capillary electrophoresis; Tropane alkaloids; Water stress **42**, 17

O_2 evolution; Water stress; Stomatal conductance **42**, 155

Oil; Mangroves; *Avicennia marina*; *Rhizophora stylosa*; *Rhizophora mucronata*; *Ceriops tagal* **42**, 221

Olea europaea; Water deficit; Stomatal control; Leaf water status; Photosynthetic response **42**, 95

Olea europea; Drought; Leaf anatomy; Osmotic adjustment; Photosynthesis; Water relations **42**, 113

Oncidium; Infection; Inflorescence; Orchid; Photosynthesis; Virus eradication **42**, 11

Open-top chamber; Biomass; Flowering; Genotype; Ozone; *Phleum alpinum*; *Phleum pratense* **42**, 41

Orchid; Infection; Inflorescence; *Oncidium*; Photosynthesis; Virus eradication **42**, 11

***Oryza sativa* L.**; Dry matter; Grain filling; NaCl; Photosynthesis; Salinity **42**, 211

Osmotic adjustment; Drought; Leaf anatomy; *Olea europea*; Photosynthesis; Water relations **42**, 113

Oxidative stress; Antioxidants; Low growth temperature; Pigments; Quantum efficiency; Scavenging enzymes; *Zea mays* **42**, 129

Oxidative stress; Antioxidation system; Glucose-6-phosphate dehydrogenase; Lichen; Mannitol; Sulfur dioxide; Trehalase; *Xanthoparmelia mexicana* **42**, 201

Oxygen species; *Brassica juncea*; Ascorbate–glutathione cycle; Catalase; Peroxidase; Superoxide dismutase; Zinc toxicity **42**, 1

Ozone; Biomass; Flowering; Genotype; Open-top chamber; *Phleum alpinum*; *Phleum pratense* **42**, 41

Ozone; Cucumber; *Cucumis sativa*; Fungus disease; Plant growth; *Sphaerotheca fuliginea* **42**, 163

Parthenocarpy; CPPU; Cytokinins; Fruit set; Fruit growth; *Lagenaria leucantha*; Plant growth regulators **42**, 121

Paxillus involutus; *Betula pendula*; Elevated CO_2; Plant growth; Ectomycorrhiza; Mycelial development **42**, 231

Peroxidase; *Brassica juncea*; Ascorbate–glutathione cycle; Catalase; Superoxide dismutase; Oxygen species; Zinc toxicity **42**, 1

PFD; α-Pinene; δ^3-Carene; Field conditions; Limonene; Photosynthetic rate; *Pinus halepensis*; *Quercus ilex*; Temperature; Terpene emission **42**, 61

Phenotypic flexibility; Chlorosis; Genotypes; Growth; *Helianthus annuus*; RLGR; Selection traits **42**, 85

Phleum alpinum; Biomass; Flowering; Genotype; Open-top chamber; Ozone; *Phleum pratense* **42**, 41

Phleum pratense; Biomass; Flowering; Genotype; Open-top chamber; Ozone; *Phleum alpinum* **42**, 41

Photosynthesis; Drought; Leaf anatomy; *Olea europea*; Osmotic adjustment; Water relations **42**, 113

Photosynthesis; Dry matter; Grain filling; NaCl; *Oryza sativa* L.; Salinity **42**, 211

Photosynthesis; Infection; Inflorescence; *Oncidium*; Orchid; Virus eradication **42**, 11

Photosynthetic rate; α-Pinene; δ^3-Carene; Field conditions; Limonene; PFD; *Pinus halepensis*; *Quercus ilex*; Temperature; Terpene emission **42**, 61

Photosynthetic response; *Olea europaea*; Water deficit; Stomatal control; Leaf water status **42**, 95

Pigments; Antioxidants; Low growth temperature; Oxidative stress; Quantum efficiency; Scavenging enzymes; *Zea mays* **42**, 129

α-Pinene; δ^3-Carene; Field conditions; Limonene; PFD; Photosynthetic rate; *Pinus halepensis*; *Quercus ilex*; Temperature; Terpene emission **42**, 61

Pinus halepensis; α-Pinene; δ^3-Carene; Field conditions; Limonene; PFD; Photosynthetic rate; *Quercus ilex*; Temperature; Terpene emission **42**, 61

Pinus sylvestris; Backscattered electron images; Energy dispersive analyser; Epicuticular waxes; Scots pine; UV-B radiation **42**, 173

Plantago major; Adaptation; Alpine plant; Altitude; Antioxidative system; Isoenzyme **42**, 51

Plant growth; *Betula pendula*; Elevated CO_2; Ectomycorrhiza; Mycelial development; *Paxillus involutus* **42**, 231

Plant growth; Cucumber; *Cucumis sativa*; Fungus disease; Ozone; *Sphaerotheca fuliginea* **42**, 163

Plant growth regulators; CPPU; Cytokinins; Fruit set; Fruit growth; *Lagenaria leucantha*; Parthenocarpy **42**, 121

Quantum efficiency; Antioxidants; Low growth temperature; Oxidative stress; Pigments; Scavenging enzymes; *Zea mays* **42**, 129

Quercus ilex; α-Pinene; δ^3-Carene; Field conditions; Limonene; PFD; Photosynthetic rate; *Pinus halepensis*; Temperature; Terpene emission **42**, 61

Respiration; Global change; CO_2 acclimation; *Glycine max*; Stomatal conductance **42**, 141

Rhizophora mucronata; Mangroves; Oil; *Avicennia marina*; *Rhizophora stylosa*; *Ceriops tagal* **42**, 221

Rhizophora stylosa; Mangroves; Oil; *Avicennia marina*; *Rhizophora mucronata*; *Ceriops tagal* **42**, 221

RLGR; Chlorosis; Genotypes; Growth; *Helianthus annuus*; Phenotypic flexibility; Selection traits **42**, 85

Salinity; Dry matter; Grain filling; NaCl; *Oryza sativa* L.; Photosynthesis **42**, 211

Salinity; Water relations; Sunflower; *Helianthus annuus* L.; Calcium **42**, 105

Scavenging enzymes; Antioxidants; Low growth temperature; Oxidative stress; Pigments; Quantum efficiency; *Zea mays* **42**, 129

Scots pine; Backscattered electron images; Energy dispersive analyser; Epicuticular waxes; UV-B radiation; *Pinus sylvestris* **42**, 173

Selection traits; Chlorosis; Genotypes; Growth; *Helianthus annuus*; Phenotypic flexibility; RLGR **42**, 85

Solanum tuberosum; Carbon partitioning; Drought; Feedback inhibition; Source–sink; Starch; Stomatal conductance; Sucrose **42**, 25

Source–sink; Carbon partitioning; Drought; Feedback inhibition; *Solanum tuberosum*; Starch; Stomatal conductance; Sucrose **42**, 25

Sphaerotheca fuliginea; Cucumber; *Cucumis sativa*; Fungus disease; Ozone; Plant growth **42**, 163

Starch; Carbon partitioning; Drought; Feedback inhibition; *Solanum tuberosum*; Source–sink; Stomatal conductance; Sucrose **42**, 25

Stomatal conductance; Carbon partitioning; Drought; Feedback inhibition; *Solanum tuberosum*; Source–sink; Starch; Sucrose **42**, 25

Stomatal conductance; Global change; CO_2 acclimation; *Glycine max*; Respiration **42**, 141

Stomatal conductance; Water stress; O_2 evolution **42**, 155

Stomatal control; *Olea europaea*; Water deficit; Leaf water status; Photosynthetic response **42**, 95

Sucrose; Carbon partitioning; Drought; Feedback inhibition; *Solanum tuberosum*; Source–sink; Starch; Stomatal conductance **42**, 25

Sulfur dioxide; Antioxidation system; Glucose-6-phosphate dehydrogenase; Lichen; Mannitol; Oxidative stress; Trehalase; *Xanthoparmelia mexicana* **42**, 201

Sunflower; Salinity; Water relations; *Helianthus annuus* L.; Calcium **42**, 105

Superoxide dismutase; *Brassica juncea*; Ascorbate–glutathione cycle; Catalase; Peroxidase; Oxygen species; Zinc toxicity **42**, 1

Technetium-speciation; Artefacts; Compartment analysis; *Lycopersicon esculentum* **42**, 69

Temperature; α-Pinene; δ^3-Carene; Field conditions; Limonene; PFD; Photosynthetic rate; *Pinus halepensis*; *Quercus ilex*; Terpene emission **42**, 61

Terpene emission; α-Pinene; δ^3-Carene; Field conditions; Limonene; PFD; Photosynthetic rate; *Pinus halepensis*; *Quercus ilex*; Temperature **42**, 61

Trace elements; Biomonitoring; Geothermal; Heavy metals; Lichen; Mercury; Yellowstone National Park **42**, 191

Trehalase; Antioxidation system; Glucose-6-phosphate dehydrogenase; Lichen; Mannitol; Oxidative stress; Sulfur dioxide; *Xanthoparmelia mexicana* **42**, 201

Tropane alkaloids; *Atropa belladonna*; Capillary electrophoresis; Nitrogen supply; Water stress **42**, 17

UV-B radiation; Backscattered electron images; Energy dispersive analyser; Epicuticular waxes; Scots pine; *Pinus sylvestris* **42**, 173

Virus eradication; Infection; Inflorescence; *Oncidium*; Orchid; Photosynthesis **42**, 11

Water deficit; *Olea europaea*; Stomatal control; Leaf water status; Photosynthetic response **42**, 95

Water relations; Drought; Leaf anatomy; *Olea europea*; Osmotic adjustment; Photosynthesis **42**, 113

Water relations; Salinity; Sunflower; *Helianthus annuus* L.; Calcium **42**, 105

Water stress; *Atropa belladonna*; Capillary electrophoresis; Nitrogen supply; Tropane alkaloids **42**, 17

Water stress; O_2 evolution; Stomatal conductance **42**, 155

Xanthoparmelia mexicana; Antioxidation system; Glucose-6-phosphate dehydrogenase; Lichen; Mannitol; Oxidative stress; Sulfur dioxide; Trehalase **42**, 201

Yellowstone National Park; Biomonitoring; Geothermal; Heavy metals; Lichen; Mercury; Trace elements **42**, 191

Zea mays; Antioxidants; Low growth temperature; Oxidative stress; Pigments; Quantum efficiency; Scavenging enzymes **42**, 129

Zinc toxicity; *Brassica juncea*; Ascorbate–glutathione cycle; Catalase; Peroxidase; Superoxide dismutase; Oxygen species **42**, 1